

Abstract of the Disclosur

A method for reducing odor is provided. In one embodiment, the method comprises forming a coordination complex between particles having a positive zeta potential and a transition metal. The method further comprises contacting the coordination complex with an odorous compound, the transition metal providing one or more active sites for capturing the odorous compound. For example, in one embodiment, the particles are formed from alumina-coated silica. In addition, the coordination complex may be formed using a bifunctional chelating agent.